

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/016244

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H01L23/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01L23/12, H01L21/52

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2001-7236 A (Nitto Denko Corp.), 12 January, 2001 (12.01.01), (Family: none)	1-17
A	JP 2000-349194 A (Matsushita Electric Industrial Co., Ltd.), 15 December, 2000 (15.12.00), (Family: none)	1-17
A	JP 2001-223287 A (Mitsui High-tec Inc.), 17 August, 2001 (17.08.01), (Family: none)	1-17
A	JP 02-126625 A (Shin-Etsu Handotai Co., Ltd.), 15 May, 1990 (15.05.90), (Family: none)	1-17

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
25 November, 2004 (25.11.04)

Date of mailing of the international search report
14 December, 2004 (14.12.04)

Name and mailing address of the ISA/
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-134545 A (Oki Electric Industry Co., Ltd.), 10 May, 2002 (10.05.02), & <u>US 2002/0052065 A1</u>	1-17